

JP63306546A
OPTICAL RECORDING AND REPRODUCING DEVICE
OLYMPUS OPTICAL CO LTD
Inventor(s) : HORIKAWA YOSHIAKI
Application No. 62142220, Filed 19870609, Published 19881214

Abstract: PURPOSE: To sharply increase the recording capacity of an information recording medium by arranging a condenser lens for forming a condensing point on a position conjugate with a recording layer in front of a detector and positioning a pin hole on the condensing point.

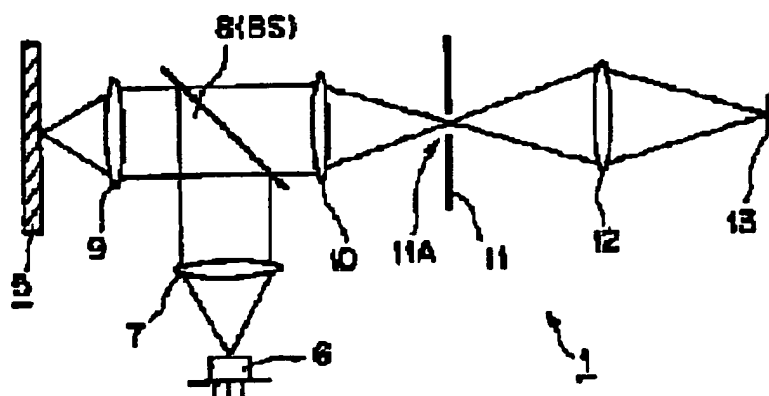
CONSTITUTION: The condenser lens 6 for forming its condensing point on a position conjugate with the recording layer 5b is arranged in front of the detector 8 and the pin hole 7 is positioned on the condensing point to constitute a detecting system as a confocal system. Since the pin hole 7 is arranged on the condensing position of the condenser lens 6 which is a conjugate position with the recording layer 5b, reflected light from recording layers 5a, 5c other than the recording layer 5b is not reached to the detector 8. Thereby, only the information on the recording layer 5b is detected. Even if an interval between the recording layers in the information recording medium is short, no detecting error is generated, so that the recording capacity of the information recording medium can be sharply increased.

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Int'l Class: G11B007135

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OPTICAL PICKUP DEVICE FOR MULTILAYERED OPTICAL DISK

SONY CORP

Inventor(s) : KATO YOSHIKI ; FUKUMOTO ATSUSHI

Application No. 06329160, Filed 19941228, Published 19960716

Abstract: PURPOSE: To surely perform tracking control, focusing control, etc., by providing a member for shielding beams reflected on a non- focused information signal layer.

CONSTITUTION: This device 1 is provided with a light shielding plate 11 having a pin hole 11A. Then, a photodetector 13 receives surely only the beams reflected the non- focused information signal layer of a double-layered optical disk 5. On the other hand, the stray beams of the beams reflected the non- focused information signal layer of the disk 5 are shielded surely. Thus, at the time of reading and reproducing the information signal, the photodetector 13 is not affected adversely by the stray beams of the beams reflected on the information signal layer of the disk 5 to which an objective lens 9 is not focused.

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Fig. 10 is a cross-sectional view of a vertical member 108. A circular feature 108a is shown on the left side of the member 108, with a small gap between them.

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